Assignment 1

[1pt] 1. When are assignments due?

[1pt] 2. What file formats are acceptable for assignments?

[1pt] 3. What is the minimum score you can get on the final exam and still pass the class?

[1pt] 4. Compute the linear combination

$$3(-1+x+3x^2-5x^3)+7(3-4x-x^2+4x^3)$$

[3pt] 5. Show that $1 + 6x + 5x^2 + x^3$ is in the span of

$$\{1+2x+x^2-2x^3, x+4x^2, 3+4x-x^2-7x^3\}$$

[3pt] 6. Show that the set $\{1+5x+3x^2,-2-7x-5x^2,2+4x+x^2\}$ is linearly independent.